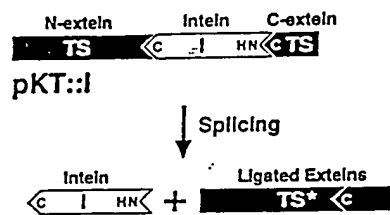
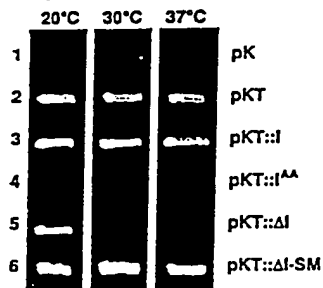


Figure 1

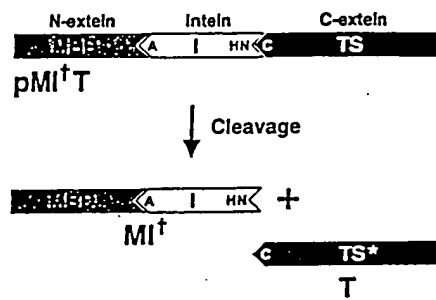
A Splicing



Splicing Phenotypes



B Cleavage



Cleavage Phenotypes

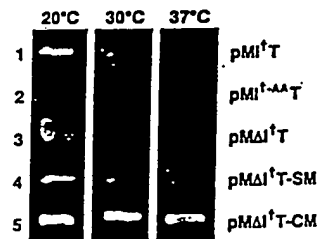
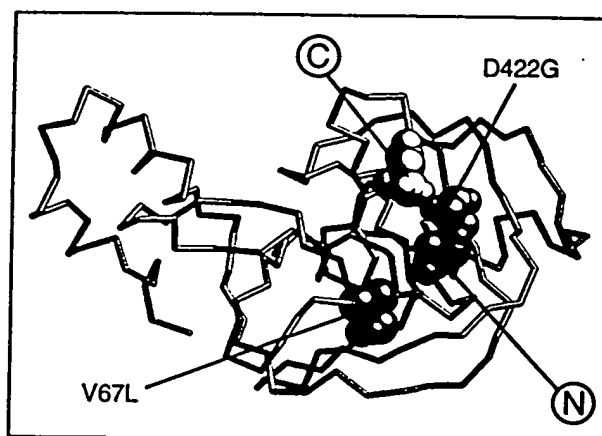


Figure 2

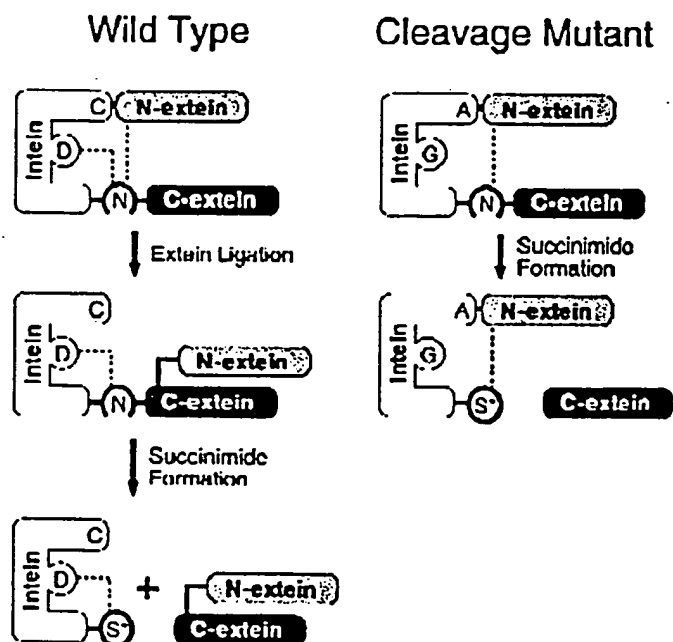
A

	Val67	Asp422	
<i>Sce vma1</i>	FTENATHEL	DYYGITISDD.SDHOFLA	SEQ ID NO:
<i>Mle recA</i>	FAATPNHLI	SMNRFDI EVE.GNHN.FVD	SEQ ID NO:
<i>Mxe gyrA</i>	VTGTANHPL	VQPVYSLRVDTADHAF.IT	SEQ ID NO:
<i>PGB Pol</i>	ITITEGHS	DGYVYDLSVO.EDENF.LAG	SEQ ID NO:
<i>Ppu.c dnaB</i>	LELTSNHKL	FQNVFDFAAAN.PIPNF.IAN	SEQ ID NO:
<i>Mtu recA</i>	VWATPDHKV	RARTFDLEVE.ELHTL.VAE	SEQ ID NO:
<i>Col hh1</i>	LRITSRHFM	TGIYSPLTNN.GR..I.IVN	SEQ ID NO:
<i>Dme hp</i>	LTVTPAHLV	KGVVAPLTRE.OT..I.VVN	SEQ ID NO:
<i>Xla vhh</i>	IRLTAAHLL	TCAYAPLTAH.OT..V.VID	SEQ ID NO:
	Block B	Block F	

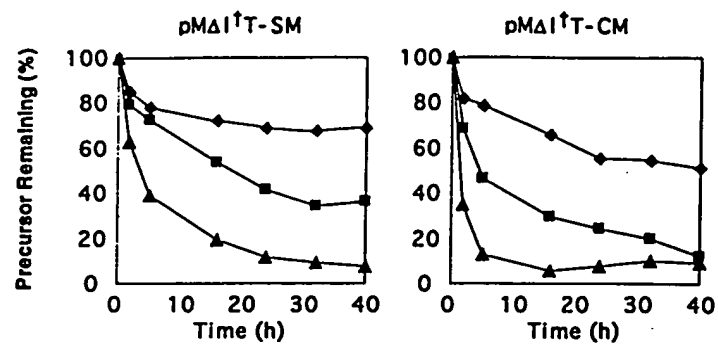
B



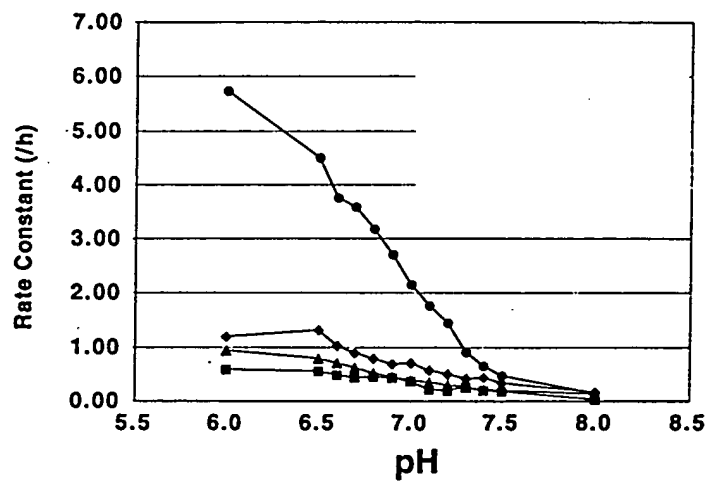
C



A Figure 3



B



C

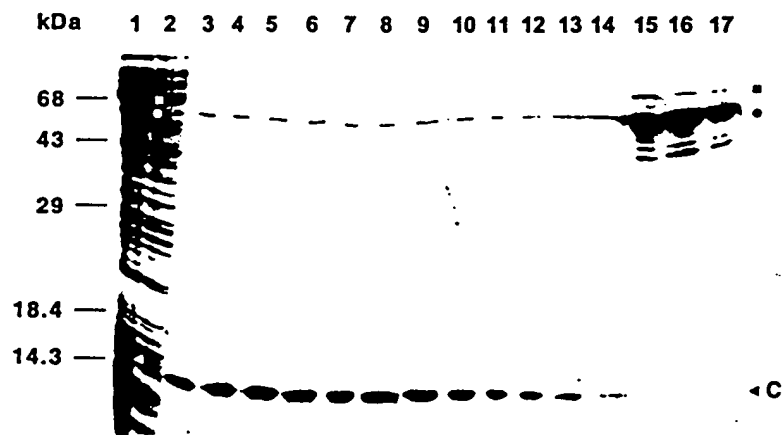


Figure 4

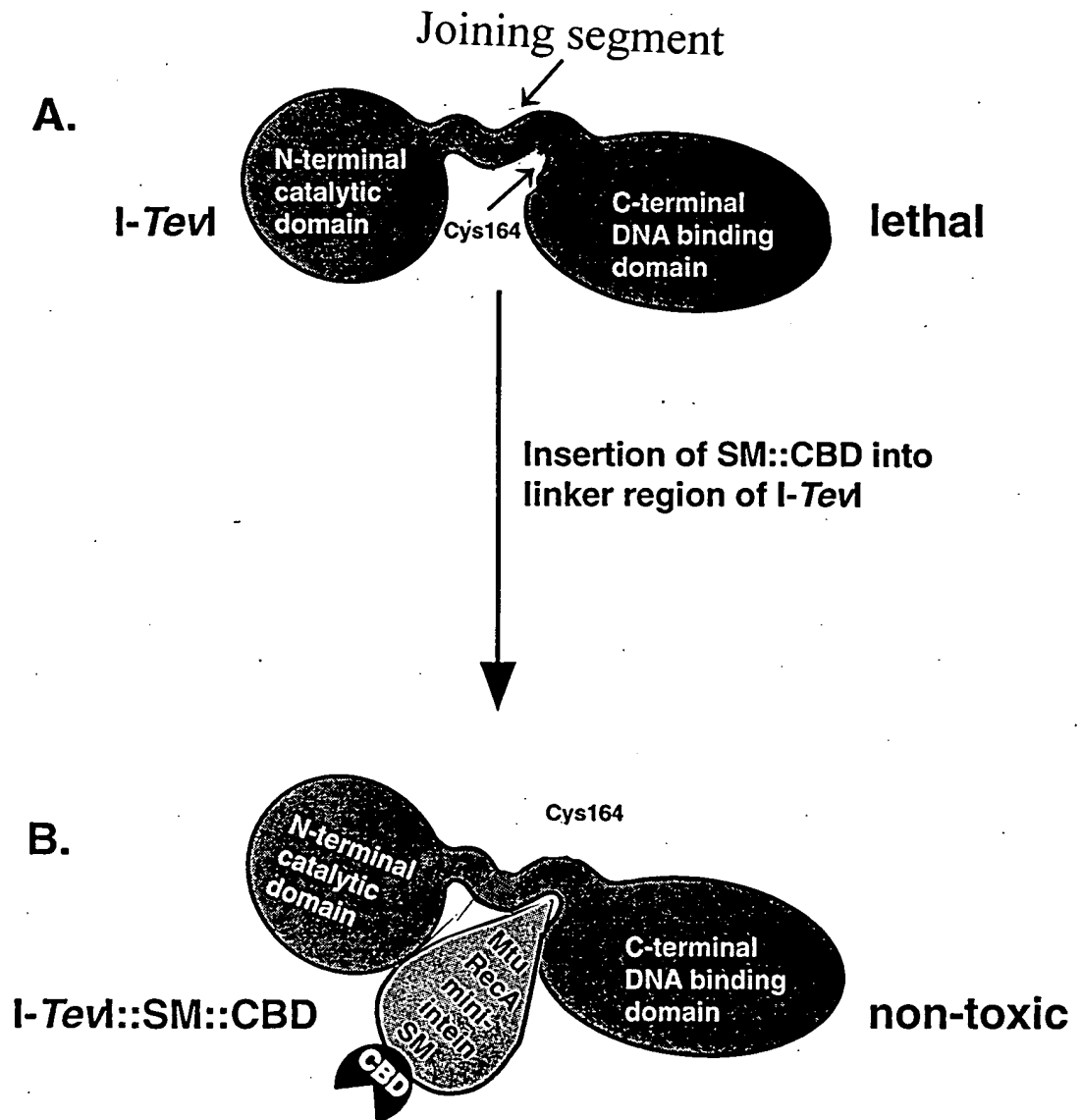
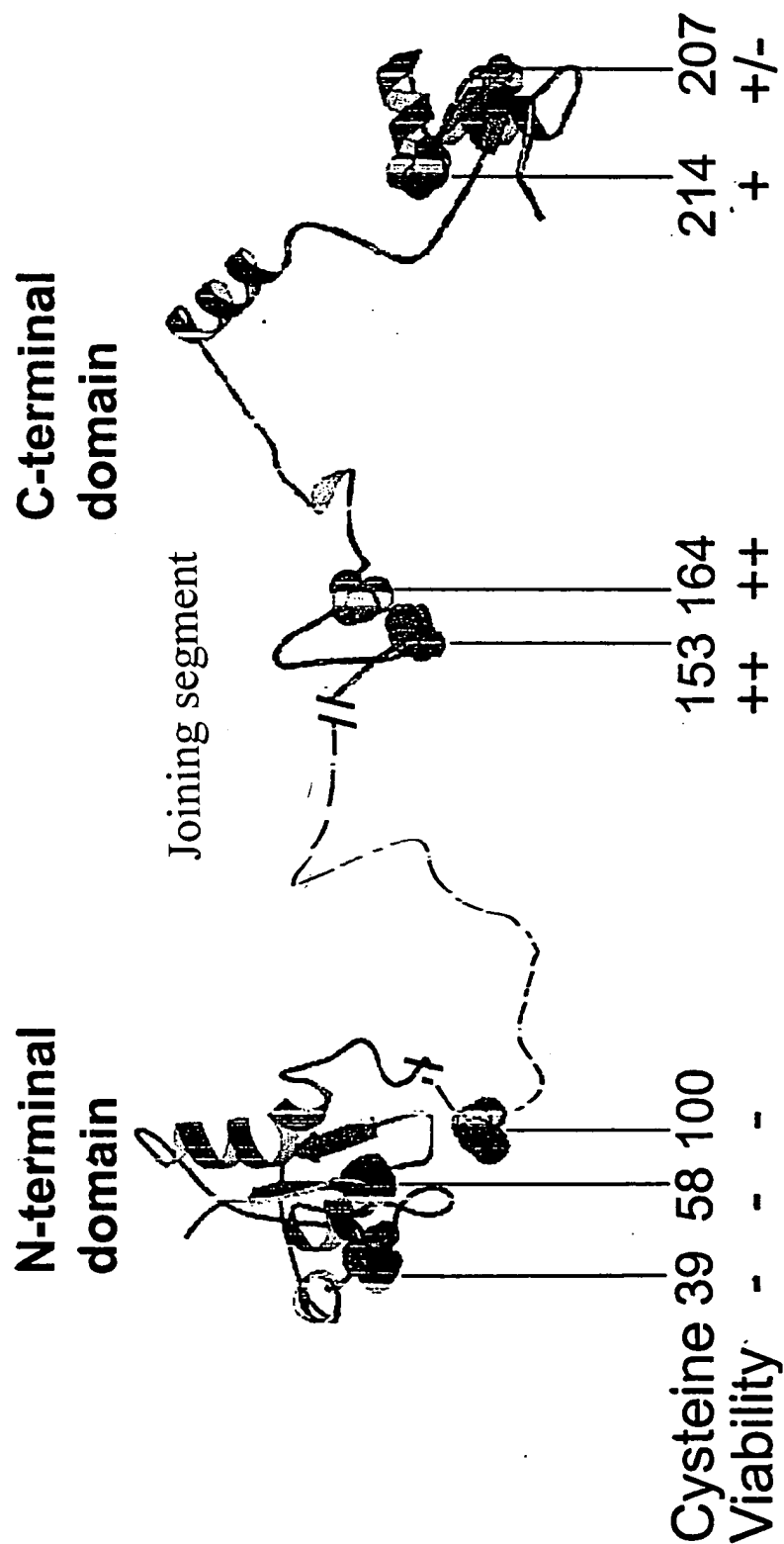


Figure 5



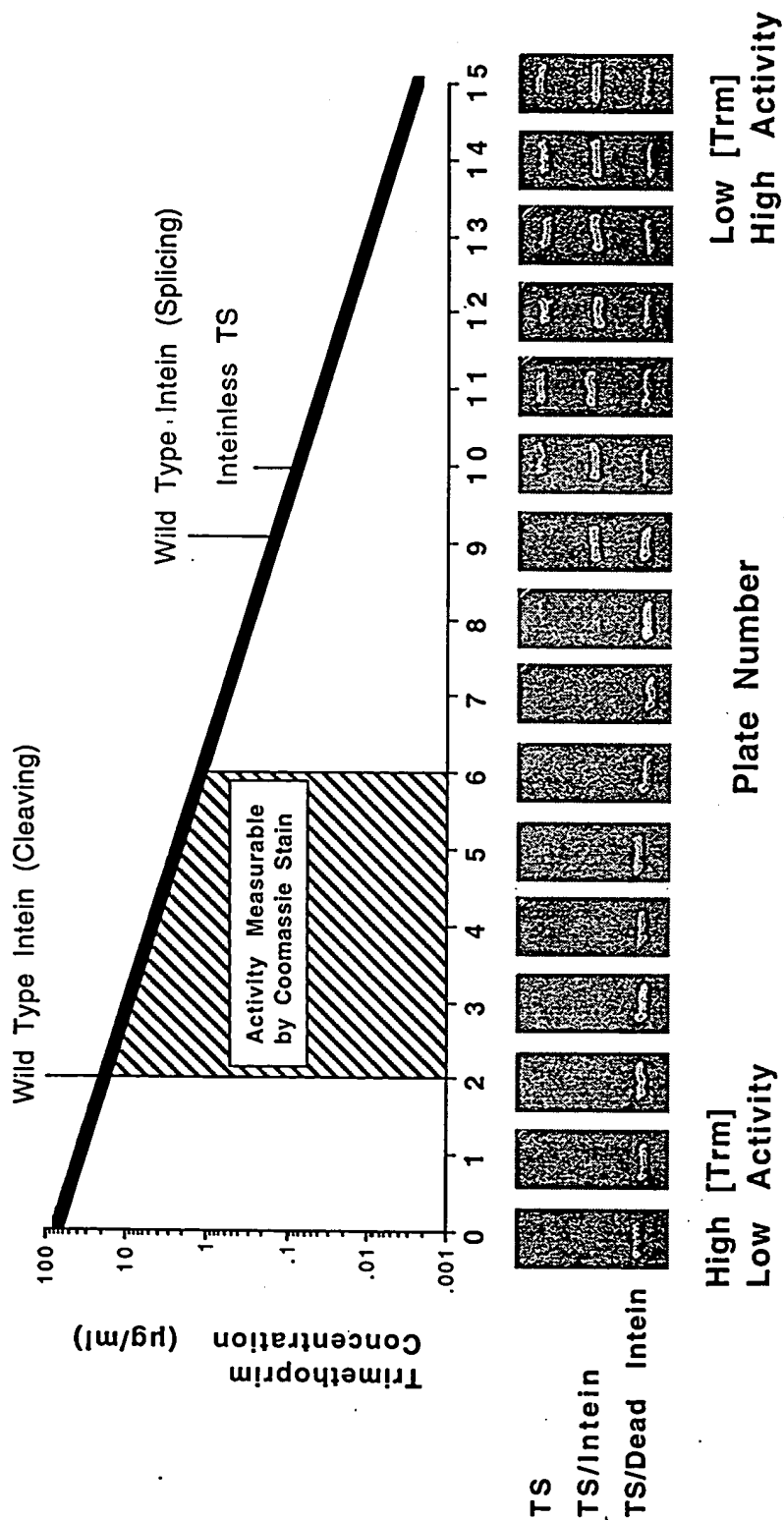


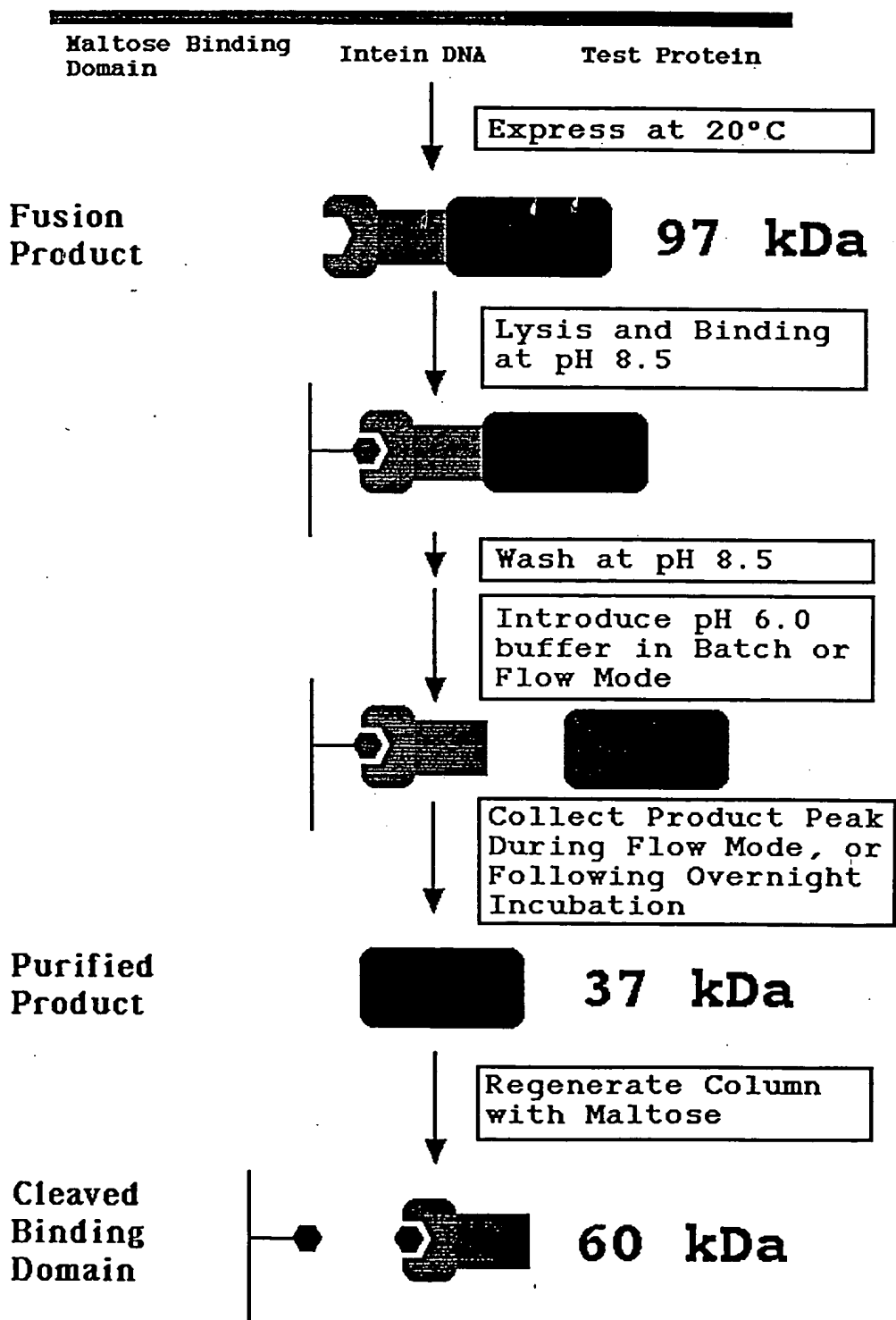
Figure 7



- Prevents Initial Acyl Shift
- Cleavage Mediated by Succinimide Formation
- Miniature Intein Mutant Derived From M.tu. RecA Intein (18 kDa)

Figure 8

DNA



002750-00011960

Figure 9

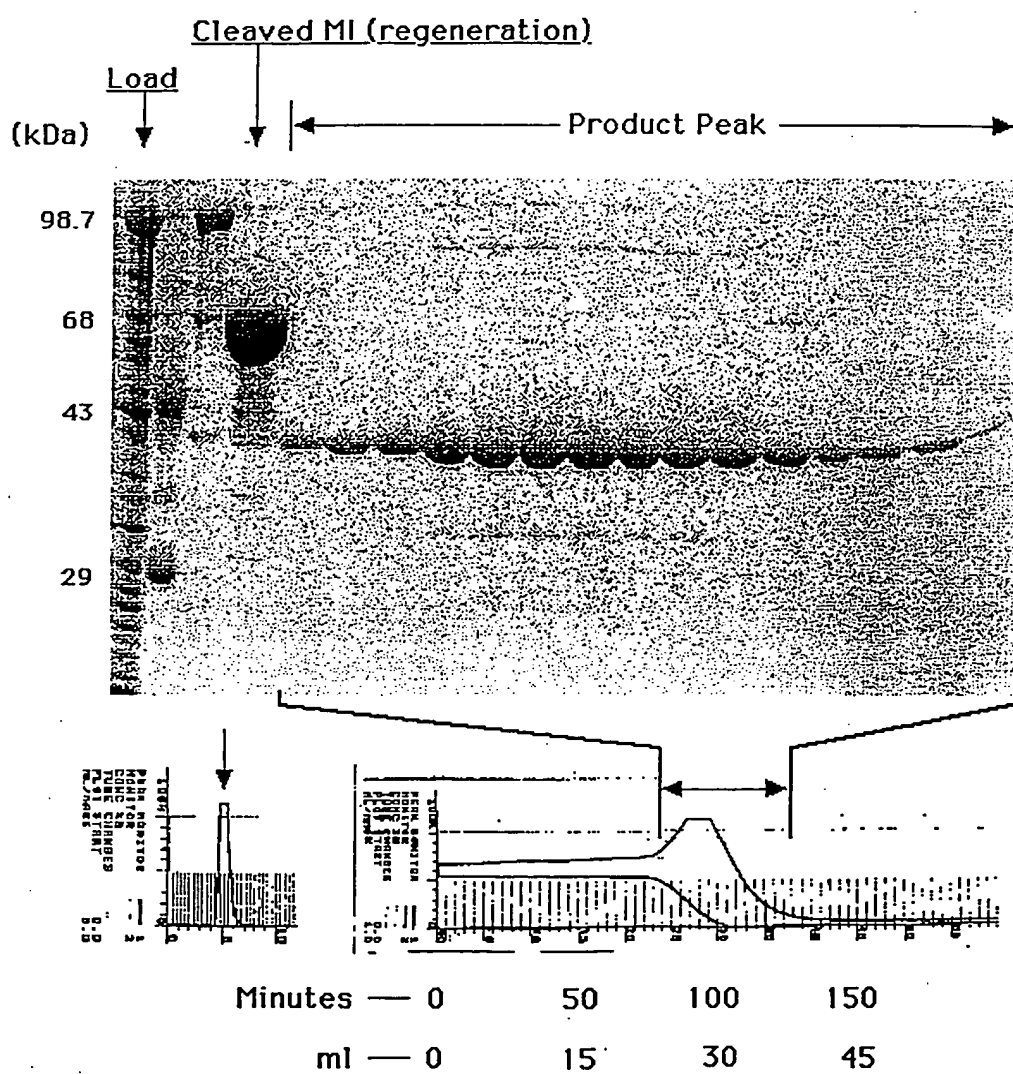
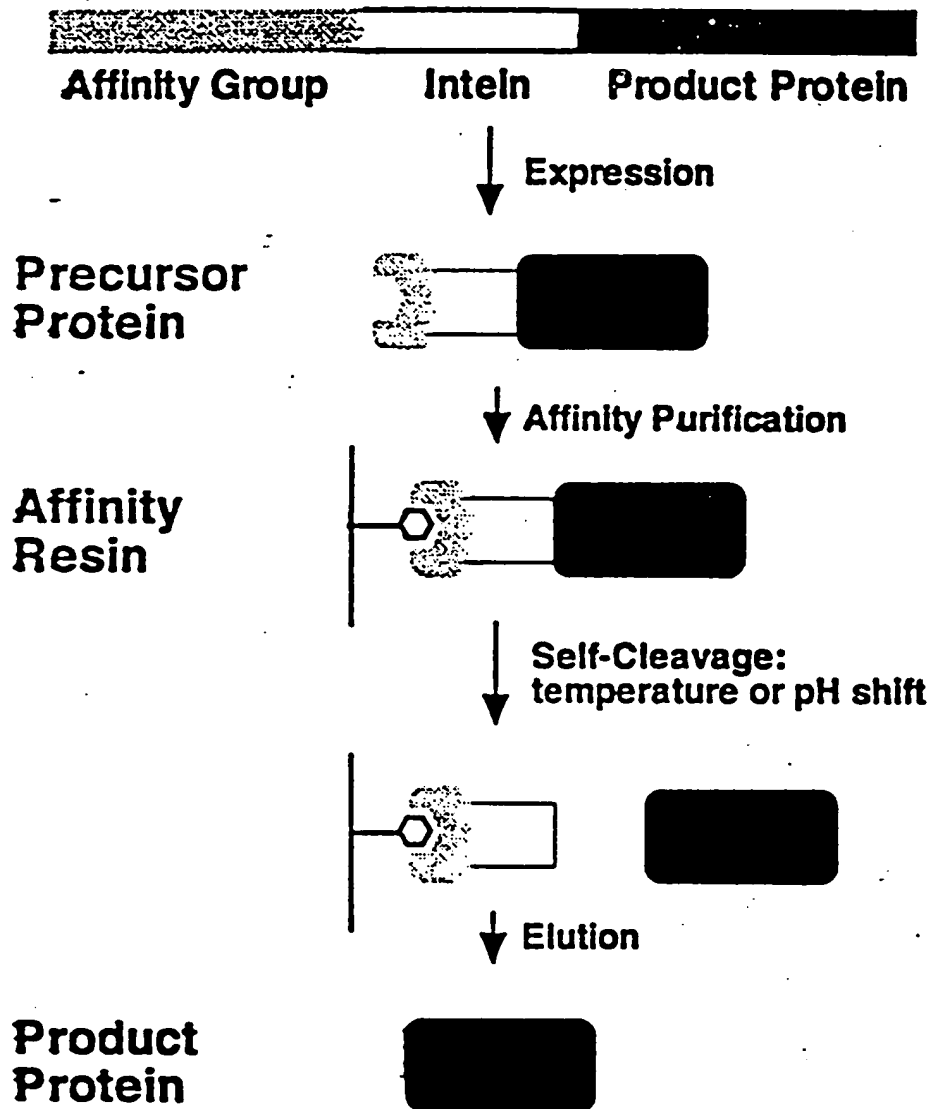


Figure 10

A

DNA Fusion



004190-004190

B

Figure 10

DNA

Ligand Binding
Domain DNA

Intein DNA

Product Protein DNA

Tripartite
Fusion
Protein

(Solid Matrix)

Purified
Product Only

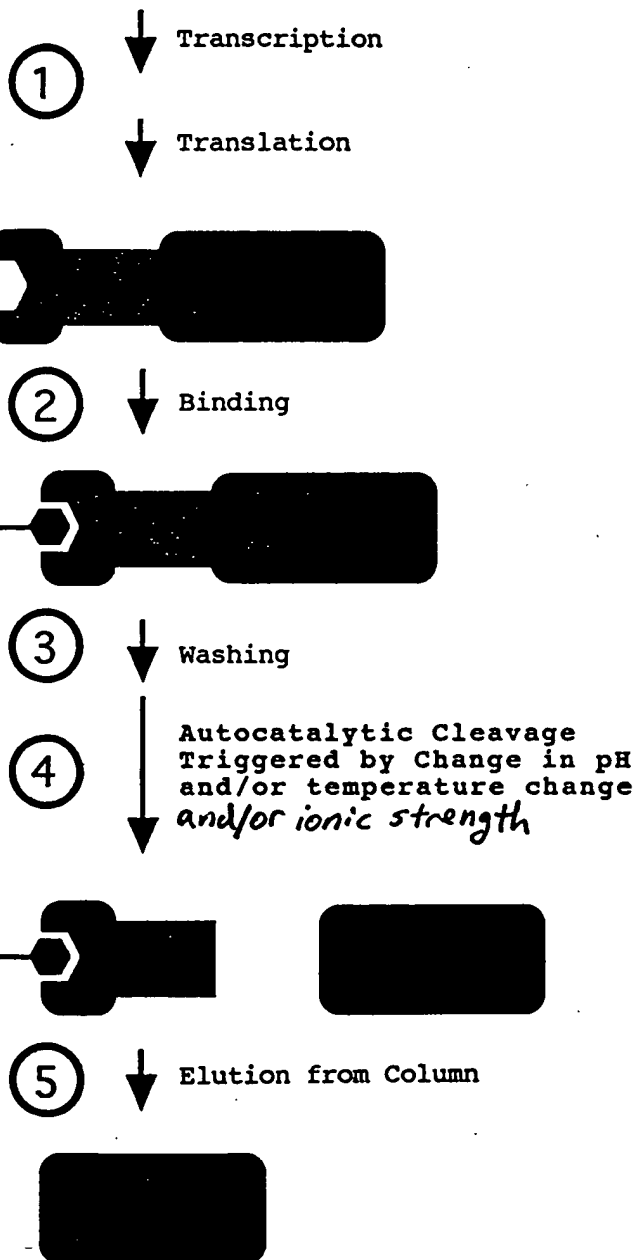


Figure 11

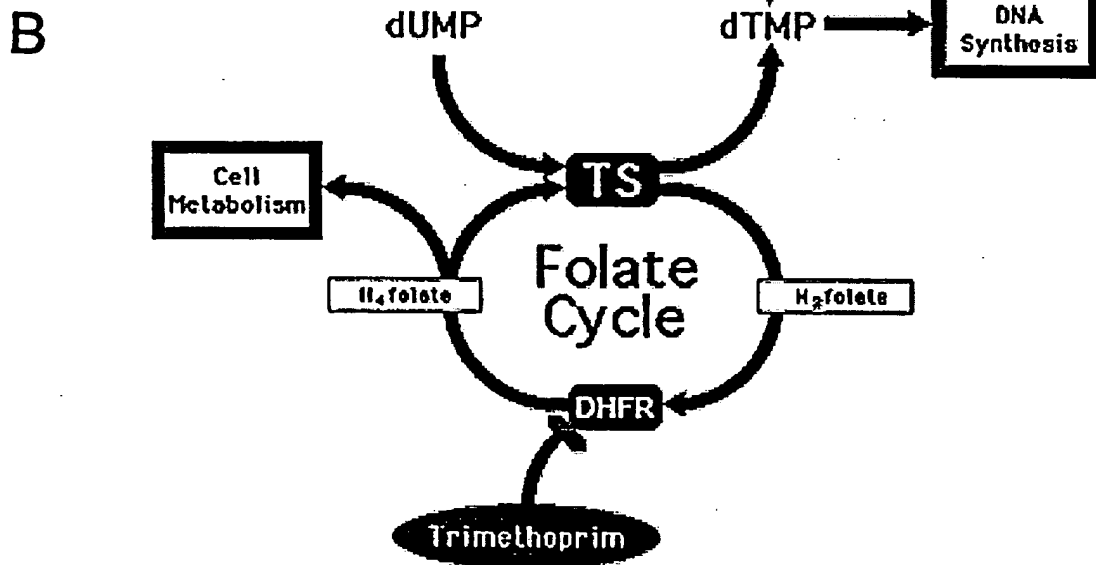
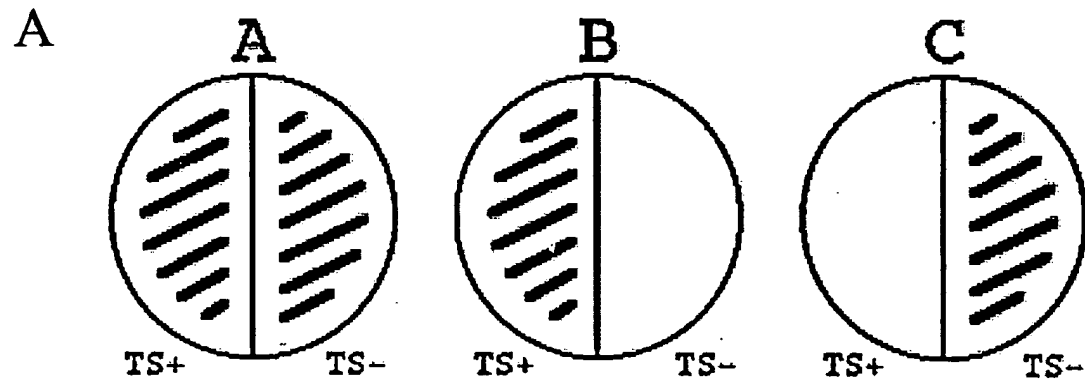


Figure 11

C

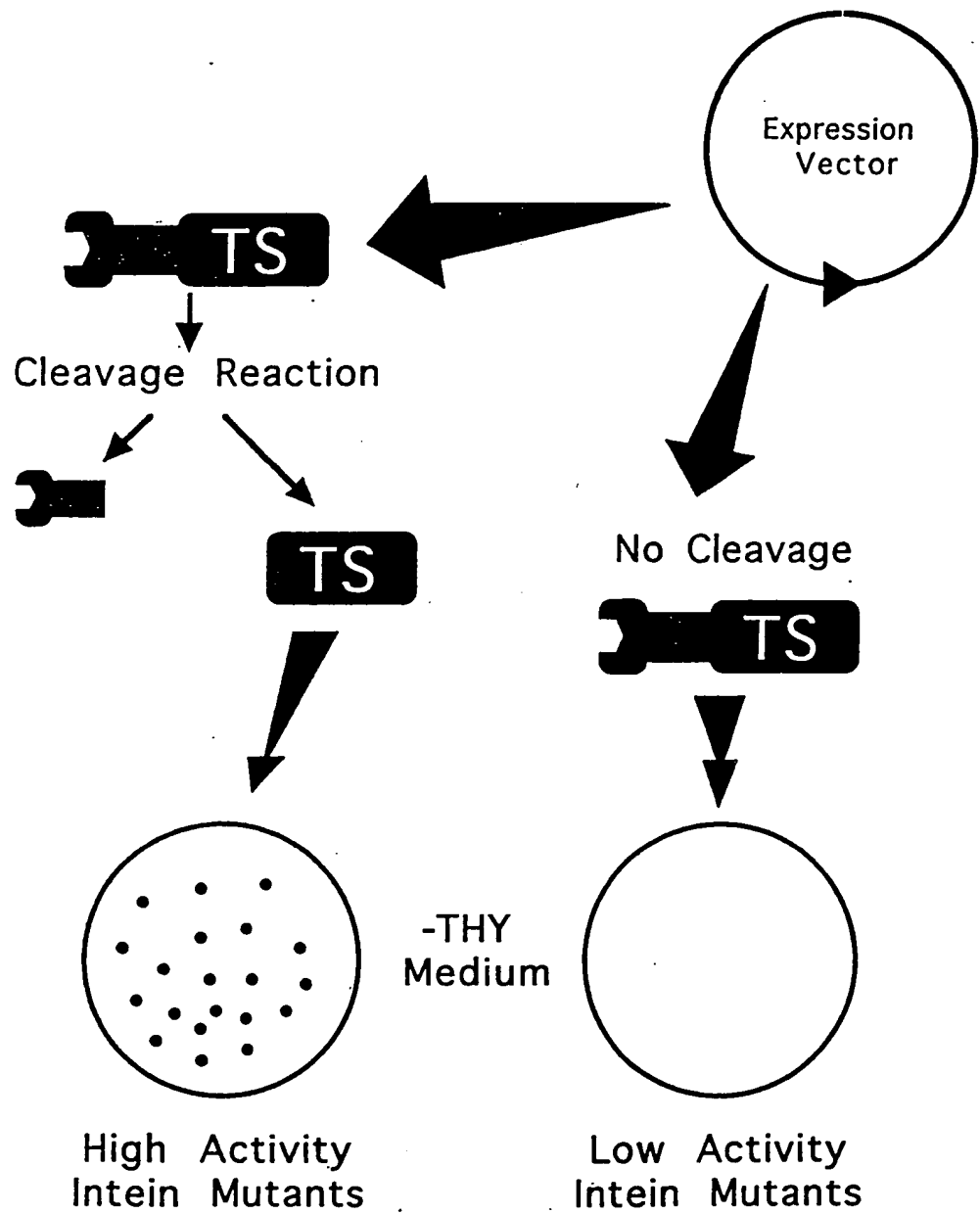
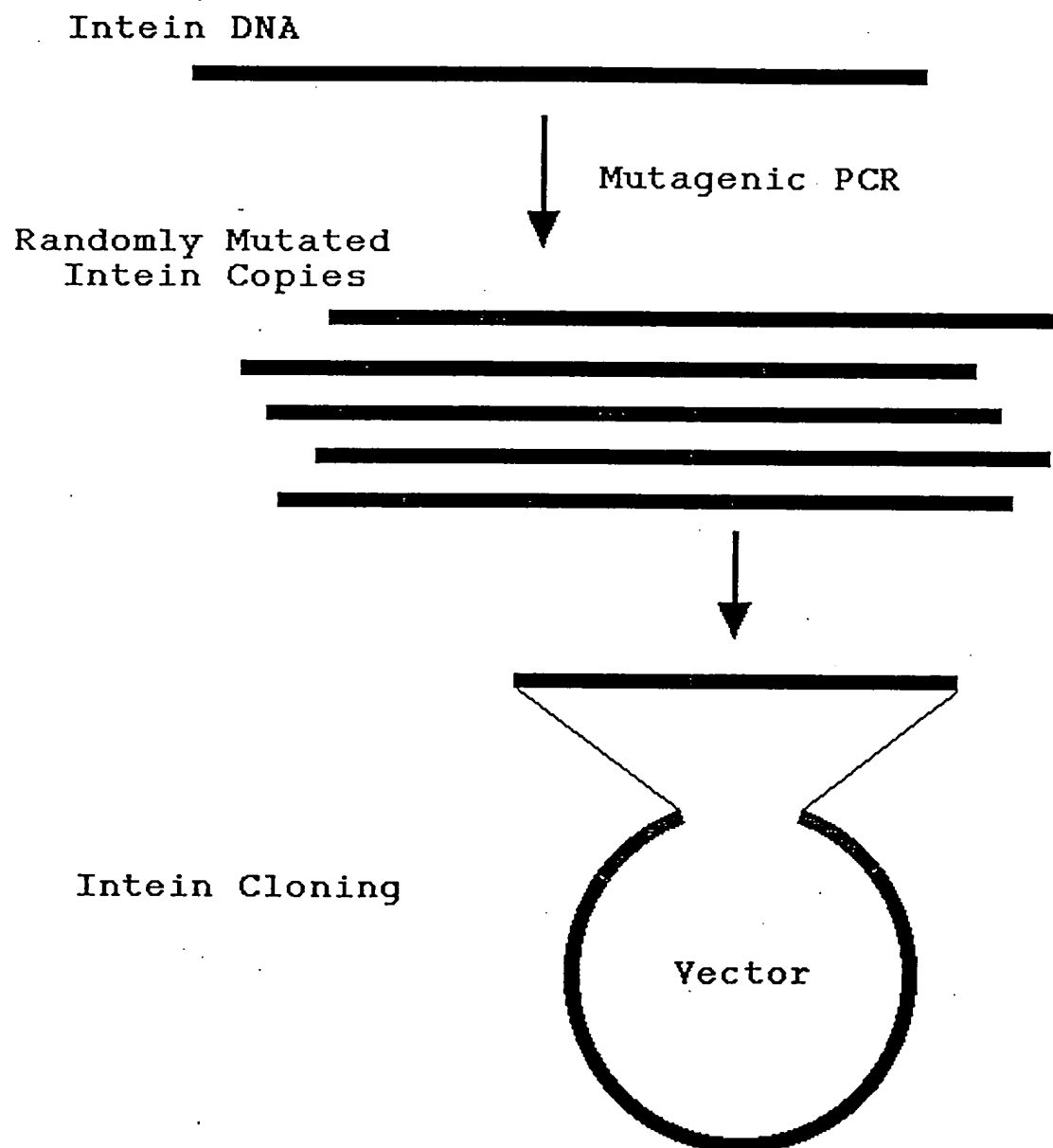


Figure 12



Splicing Activity



(Non Splicing)

Thy-



(Non Cleaving)



(Splicing)

Thy+



(Cleaving)

Figure 13

Figure 14

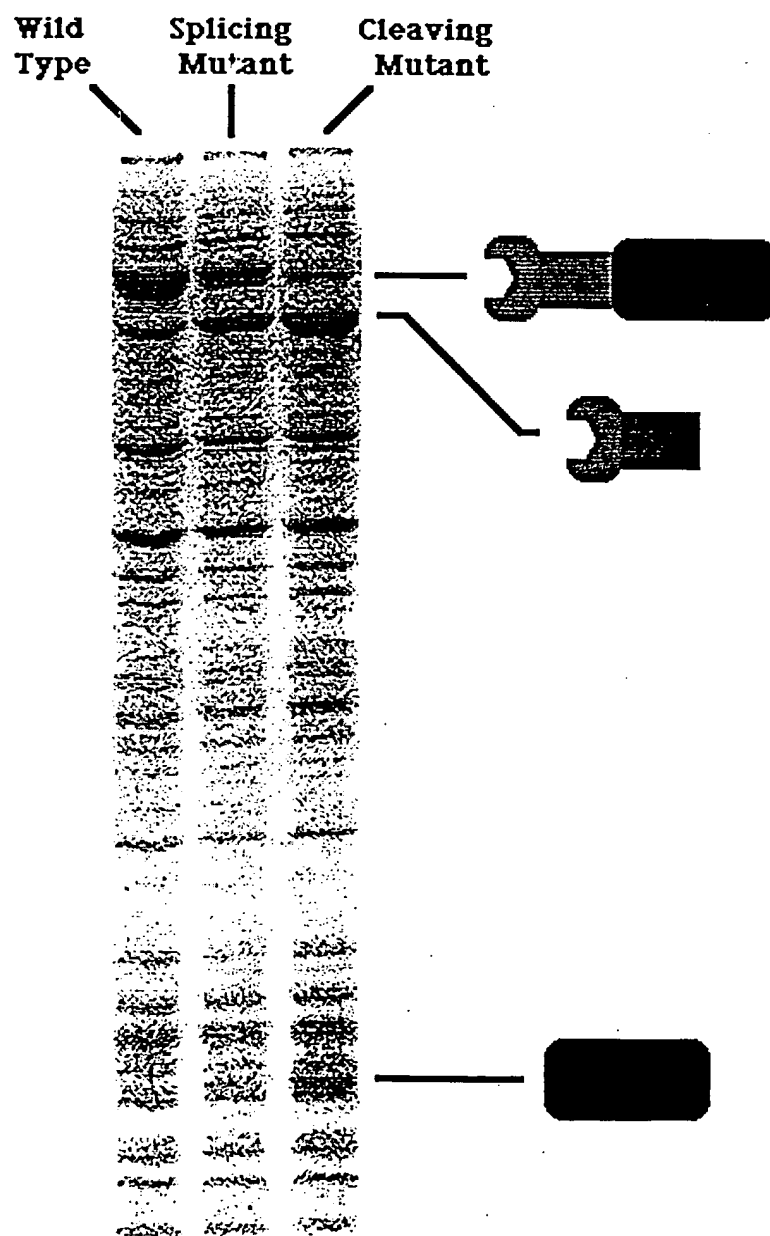
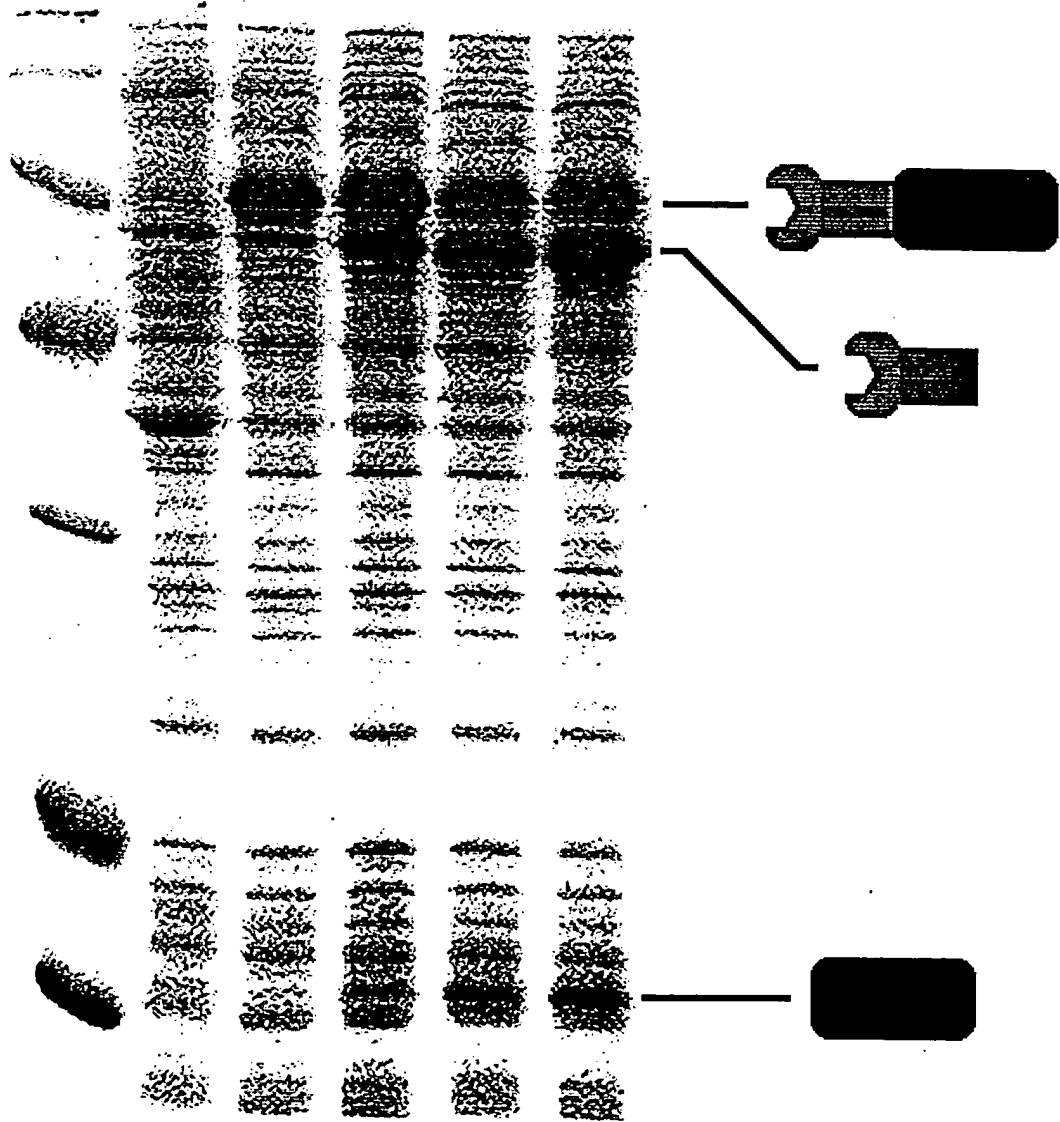


Figure 15

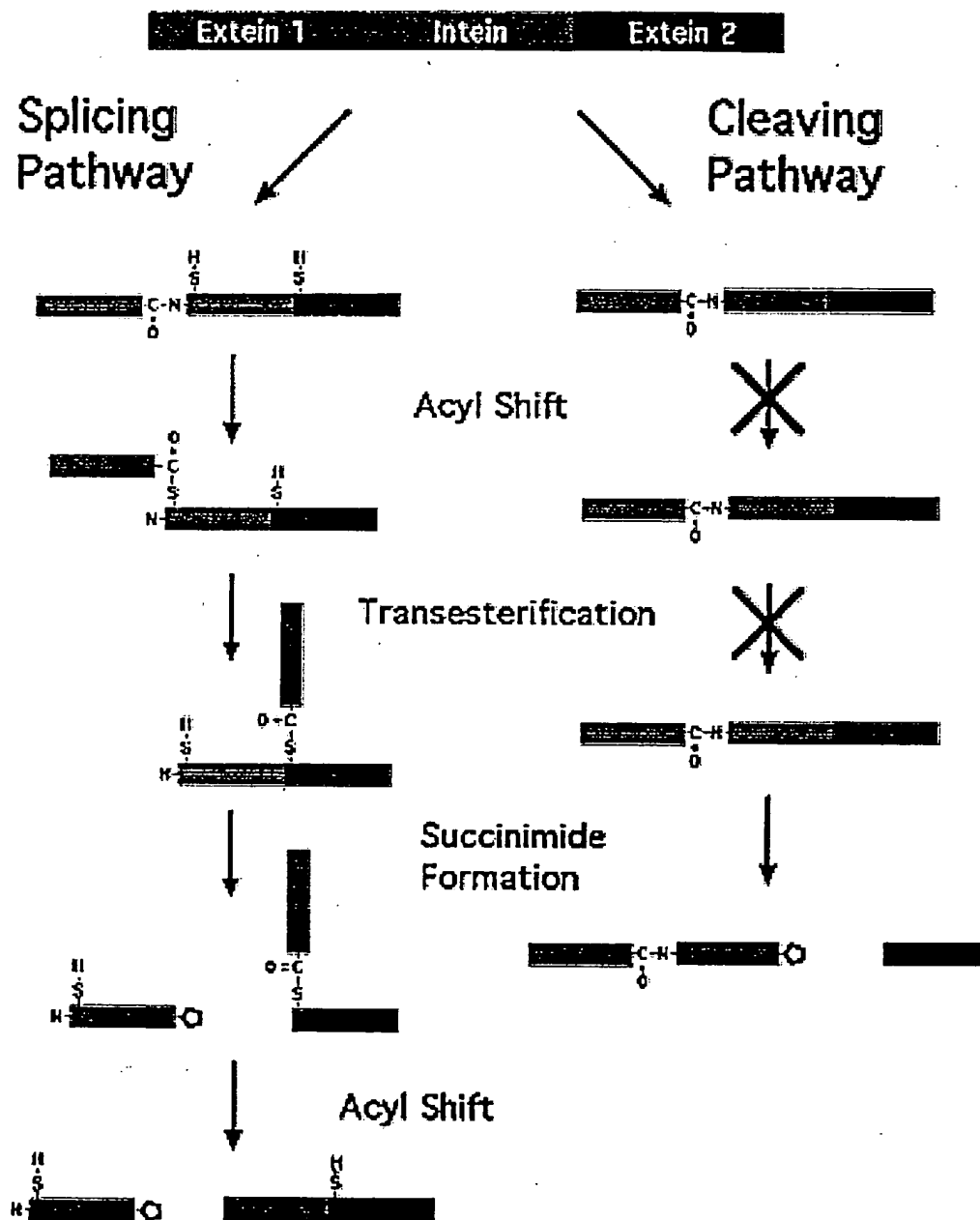
Varying Induction
Temperatures
23°C --> 42°C

I-



004760-0004560

Figure 16



002760-6067560

Figure 17

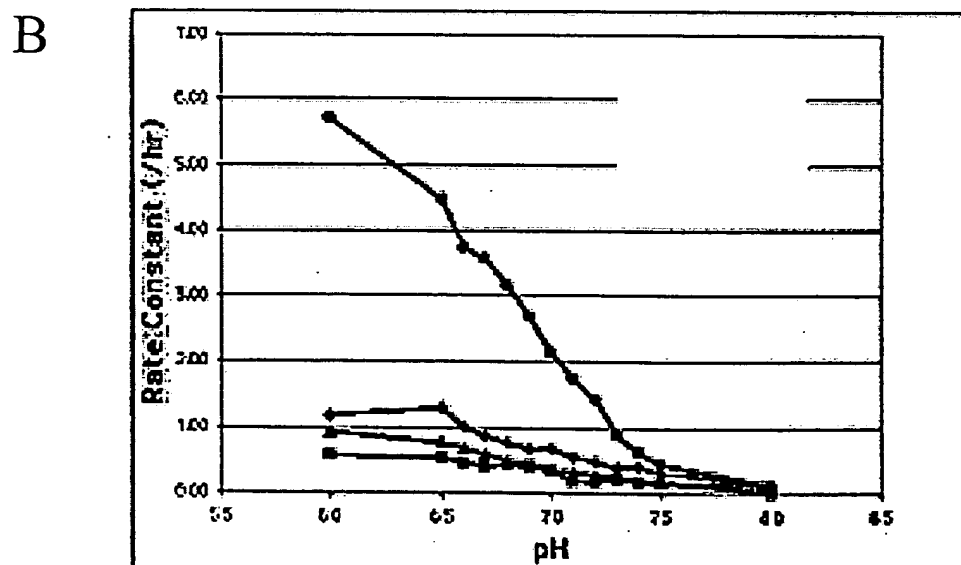
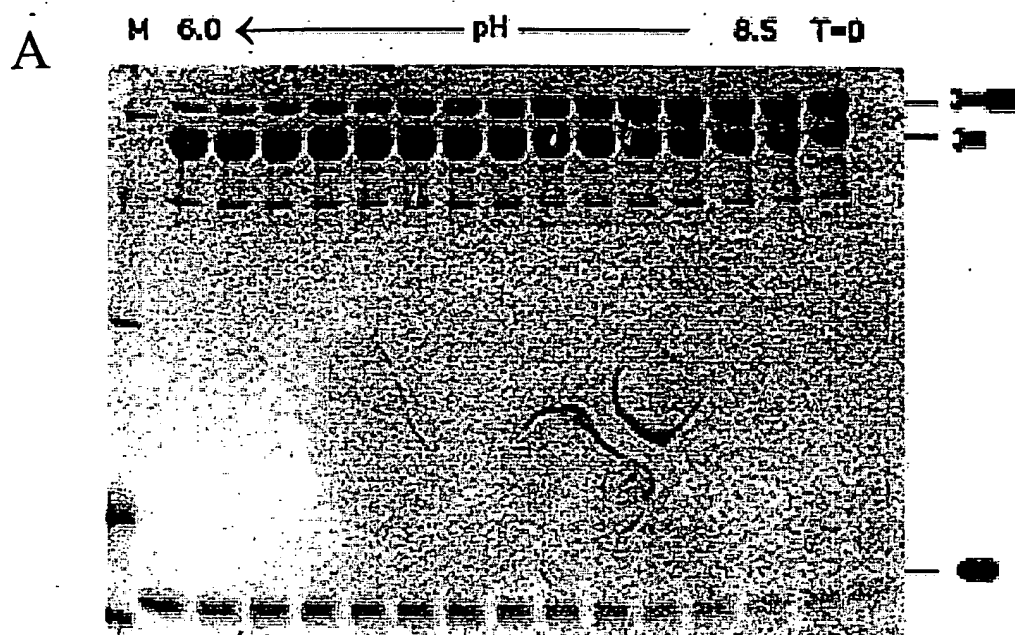
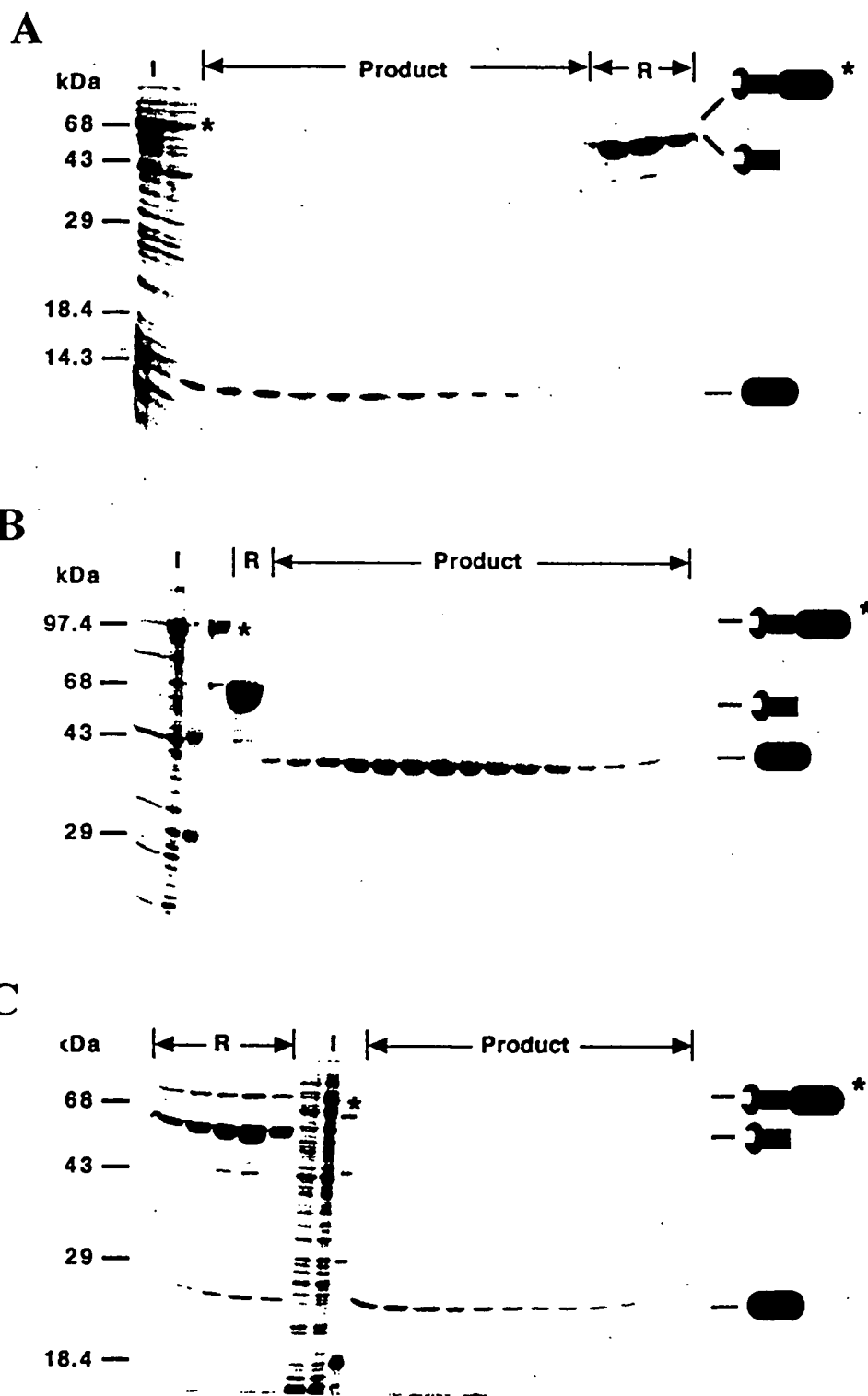
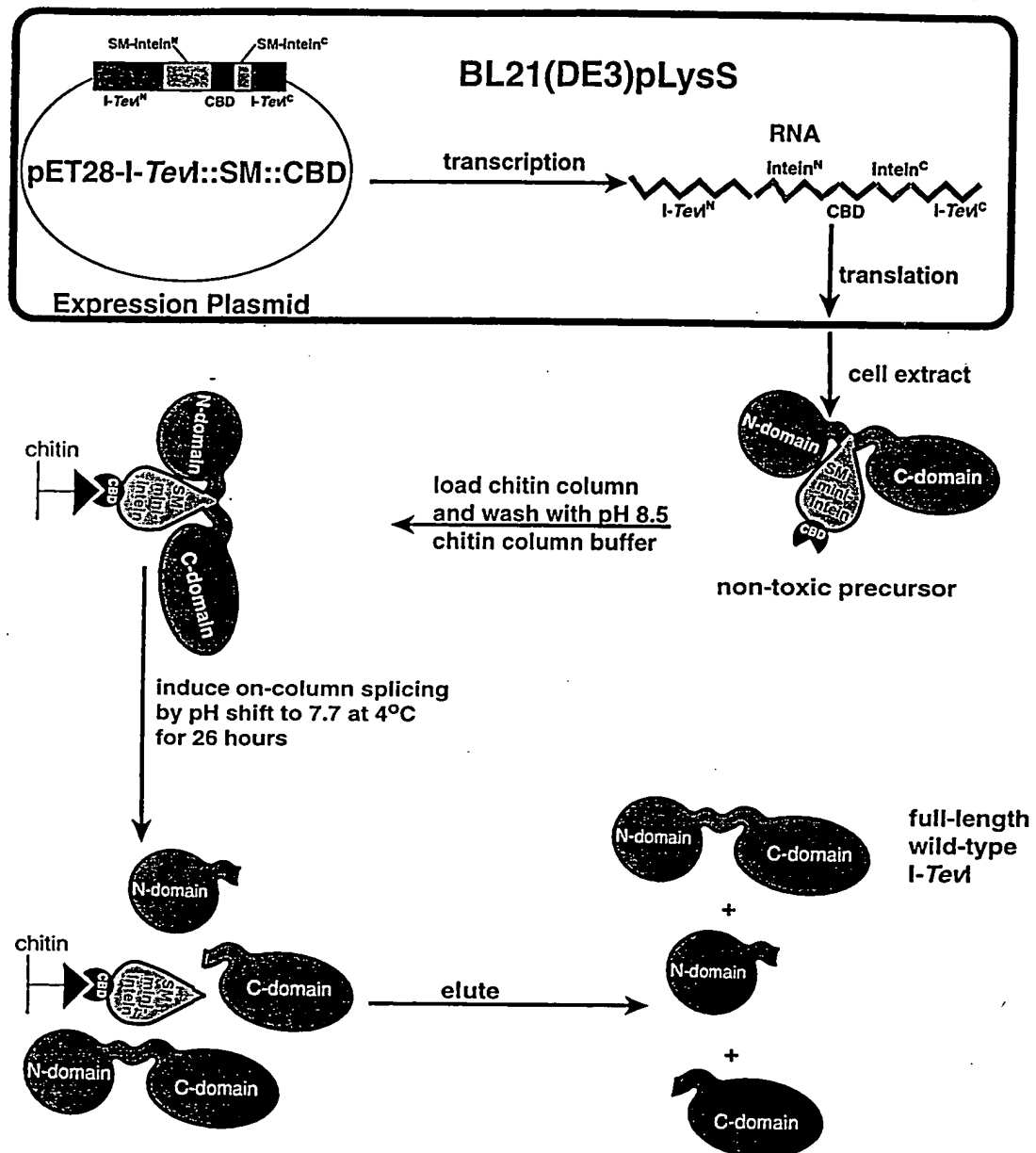


Figure 18



[illegible]

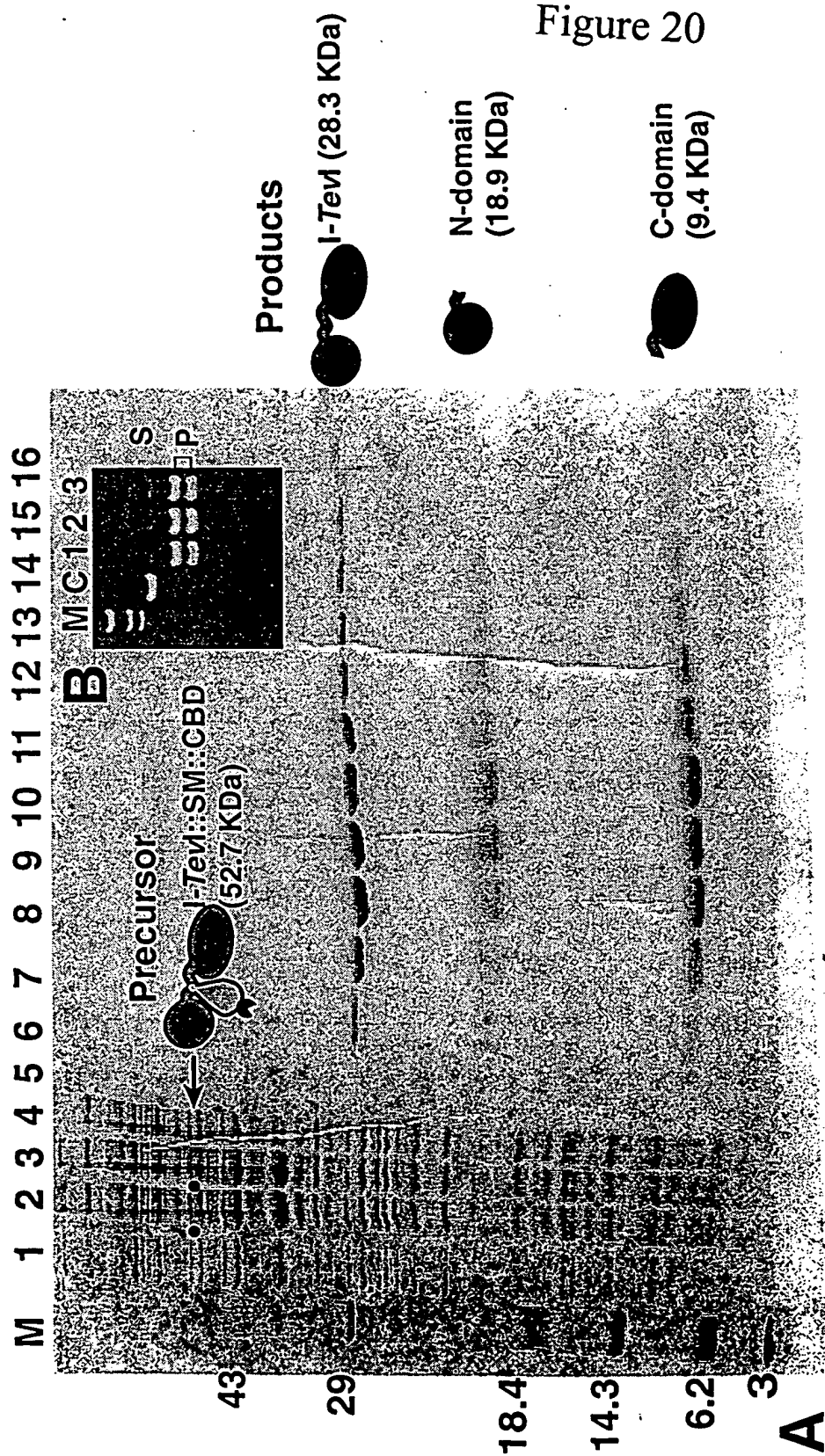


Figure 20

Figure 21

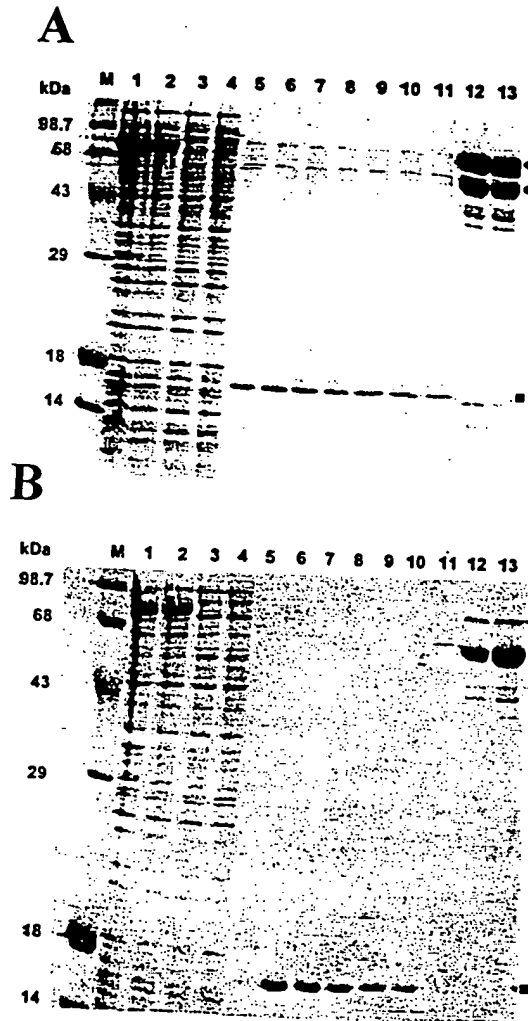


Figure 22

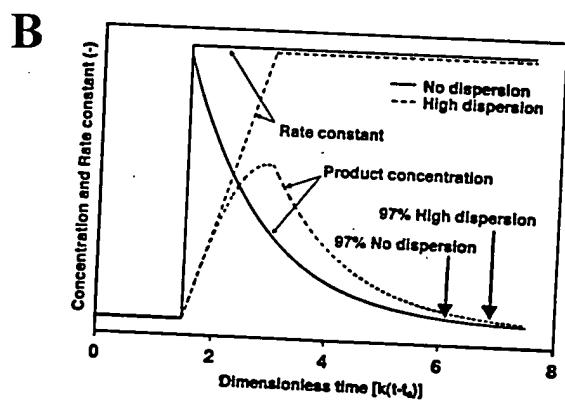
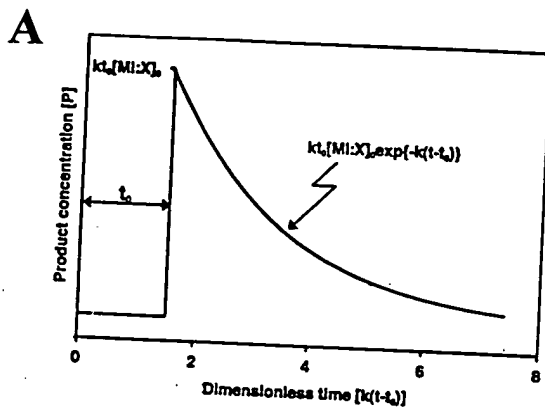
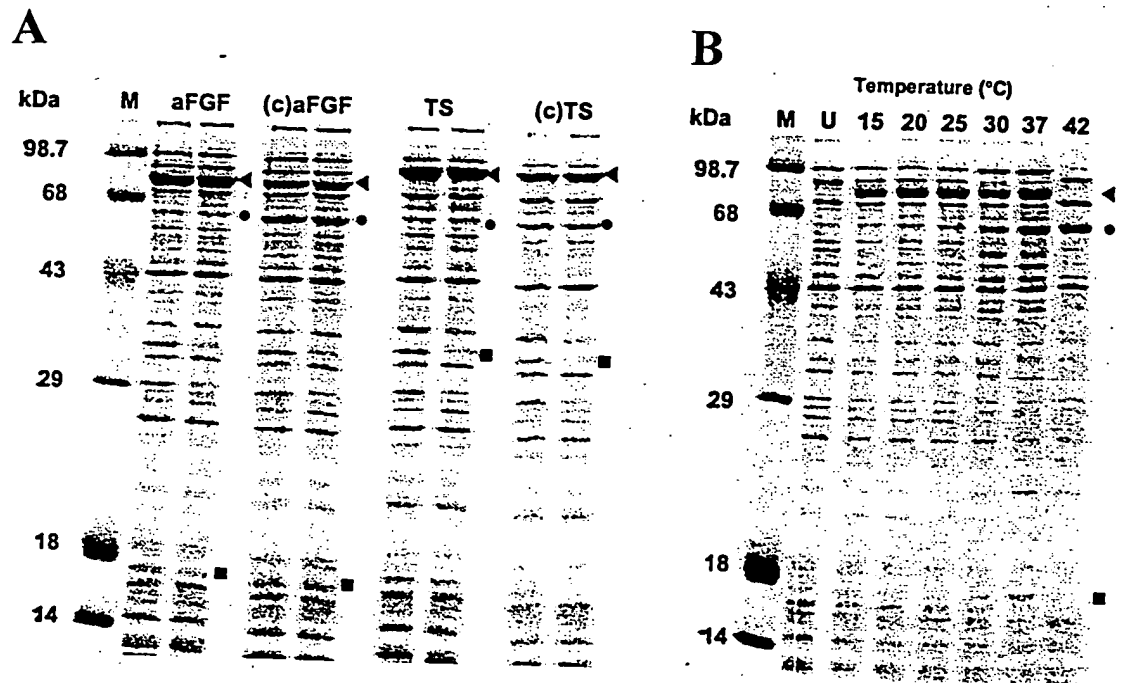


Figure 23



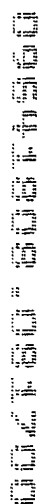
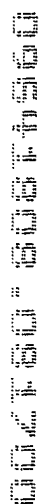
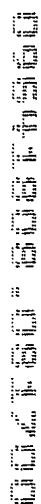
[illegible][illegible][illegible][illegible]

Figure 25

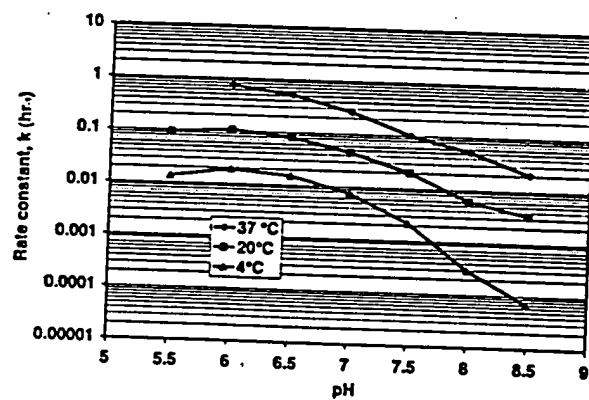


Figure 26

